

SEQUENCE LISTING

<110> Mattson, Jeanine
McClanahan, Terrill

<120> Canine RANKL and Methods for Preparing and Using the Same

<130> AH01646K

<140>

<141> 2003-12-10

<150> US60/432092

<151> 2002-12-10

<160> 15

<170> PatentIn version 3.1

<210> 1

<211> 989

<212> DNA

<213> Artificial Sequence

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<223> artificial sequence for canine RANK ligand

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<222> (1)..(21)

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ttcagggttc agatggatcc taatagaata tcagaagatg acactcactg cattaataga      180
attttcaaac tccatgaaaa tgcagatttg caagacacaa ctctggagaa tcaagacaca      240
aaattaatac ctgattcgtg taagagcatt aagcaggcct tccgagccgc cgtacaaaag      300
gaattacaac atattgttag atcacaacac atcagagcag aaaaagctat gatggaaggt      360
tcatggttgg aaatggccag gaggggcaag actcatactc aaccttttgc tcatctcact      420
atcaatgcc a ctgacatccc atctggttcc caciaagtga gtctgtcctc ctggtaccat      480
gaccgagggtt gggccaagat ctccaacatg actttcagca atgggaaact aatagttaac      540
caagatggct tttatttcct gtacgccaac atttgcttta gacatcatga aacttcagga      600
gaactcgcca cagagtatct tcagctgatg gtgtatgtca ctaaaaccag catcaaaatc      660
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ccgagttctc atacactgat gaaaggaggt agcaccaaact actggtcagg gaattctgaa      720
ttccattttt attccataaa cgttggagga ttttttaagc tacgatctgg tgaggaaata      780
agcatcgagg tatccaaccc atcactactg gaccagatc aagatgcaac atactttggg      840
gcttttaagg ttctagatat agattgagtc ccattttatg gagtgttatt ctgtatttcc      900
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Ala Ala Ser Arg Ser Val Ala Val Ala Phe Leu Gly Leu Gly Leu Gly
1           5           10          15

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```

Gln Val Val Cys Ser Val Ala Leu Phe Leu Tyr Phe Arg Ala Gln Met
          20          25          30

```

```

Asp Pro Asn Arg Ile Ser Glu Asp Asp Thr His Cys Ile Asn Arg Ile
          35          40          45

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```

Phe Lys Leu His Glu Asn Ala Asp Leu Gln Asp Thr Thr Leu Glu Asn
50          55          60

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```

Gln Asp Thr Lys Leu Ile Pro Asp Ser Cys Lys Ser Ile Lys Gln Ala
65          70          75          80

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Phe Arg Ala Ala Val Gln Lys Glu Leu Gln His Ile Val Arg Ser Gln
          85          90          95

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His Ile Arg Ala Glu Lys Ala Met Met Glu Gly Ser Trp Leu Glu Met
          100          105          110

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Ala Arg Arg Gly Lys Thr His Thr Gln Pro Phe Ala His Leu Thr Ile
          115          120          125

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Asn Ala Thr Asp Ile Pro Ser Gly Ser His Lys Val Ser Leu Ser Ser
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Trp Tyr His Asp Arg Gly Trp Ala Lys Ile Ser Asn Met Thr Phe Ser

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145 150 155 160
 Asn Gly Lys Leu Ile Val Asn Gln Asp Gly Phe Tyr Phe Leu Tyr Ala
 165 170 175
 Asn Ile Cys Phe Arg His His Glu Thr Ser Gly Asp Leu Ala Thr Glu
 180 185 190
 Tyr Leu Gln Leu Met Val Tyr Val Thr Lys Thr Ser Ile Lys Ile Pro
 195 200 205
 Ser Ser His Thr Leu Met Lys Gly Gly Ser Thr Lys Tyr Trp Ser Gly
 210 215 220
 Asn Ser Glu Phe His Phe Tyr Ser Ile Asn Val Gly Gly Phe Phe Lys
 225 230 235 240
 Leu Arg Ser Gly Glu Glu Ile Ser Ile Glu Val Ser Asn Pro Ser Leu
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 260 265 270
 Asp Ile Asp
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<223> RANKL dog/AS4 primer

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<400> 15

ccagattaga gcaattatgg ttgc

24